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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 01196302 A

(43) Date of publication of application: 08.08.89

(51) Int. Cl

B27K 3/15

(21) Application number: 63022205

(22) Date of filing: 01.02.88

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(54) CHEMICAL TREATMENT PROCESS FOR TIMBER

(57) Abstract:

PURPOSE: To provide flame retardance and enhance dimension stability, hardness and prevention of cracks by impregnating a timber with water-soluble radical polymerized compound water solution essentially containing water-soluble radical polymerized organic acid metal salt and polymerizing the same under the state of water retention.

CONSTITUTION: A timber is impregnated with water solution composed of radical polymerized organic acid metal salt water solution in which another water

solution radical polymerized compound is mixed, and then heated and polymerized in the state that the water content is scattered over as little as possible. A high molecular compound is modified in the timber by said process and also filled into the spaces of the timber to have water-insoluble organic acid metal polymer contained in the timber and provides flame retardance for the timber. Further, performances such as flame retardance and the like are retained for a long time by being impregnated with water solution inorganic acid salt group.

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XP-002159132

AN - 1989-268329 [37]

A - [001] 014 028 03- 034 04- 06- 074 075 076 08- 10- 130 133 135 137 147
15- 18& 18- 19- 198 20- 230 231 239 27& 28& 31- 316 336 341 355 359
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58- 59& 679 688 720 723

AP - JP19880022205 19880201; JP19880022205 19880201; [Based on J01196302]

CPY - DKEN

DC - A97 C03 D22 F09 P63

DR - 1740-U

FS - CPI;GMPI

IC - B27K3/15 ; B27K5/00

KS - 0013 0037 0057 0059 0060 0062 0066 0068 0069 0071 0183 0185 0229 0231
0404 0405 0408 0411 0412 0415 1172 1173 1235 1236 1279 1588 2014 2020
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2673 2679 3152 3205 3268 3318

MC - A04-A03 A04-B09 A04-F04 A11-B05C A12-B09 C04-A07D3 C04-C03B C05-A01B
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M1 - [01] H401 H481 H589 H714 H721 J011 J012 J013 J271 J272 J273 M210 M212
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P002 P241 P341 Q261 Q324 Q620 Q621 V742 V743; 1704-X 1724-X 1711-X
1714-X 8929-0

PA - (DKEN) DAIKEN KOGYO KK

PN - JP1196302 A 19890808 DW198937 004pp
- JP6081681B B2 19941019 DW199440 B27K3/15 003pp

PR - JP19880022205 19880201

XA - C1989-119027

XIC - B27K-003/15 ; B27K-005/00

XP - N1989-204690

AB - J01196302 Method comprises impregnating woody material with an aq.
soln. of (A) water-sol. and radically polymerisable cpds. contg. (B)
water-sol. and radically polymerisable metal salts of organic acids
and polymerising under water-retaining conditions. The impregnated
woody material is pref. further impregnated with water-sol. salts of
inorganic acids. (B) is pref. e.g. acrylate of Zn, Ba, Ca, Mg or Al.

(A) is pref. e.g. glycerin di(meth)acrylate, trimethylolpropane
di(meth)acrylate, trimethylolpropane triacrylate, polyethylene glycol
mono(meth)acrylate or polyethyleneglycol di(meth)acrylate).

- ADVANTAGE - The chemical treated woody material has good durability,
flame resistance, hardness, dimensional stability, rot resistance, and
insect resistance.(0/0)

DRL - 1704-X 1711-X 1714-X 1724-X 8929-0

IW - CHEMICAL TREAT WOOD IMPREGNATE WATER SOL RADICAL POLYMERISE COMPOUND
CONTAIN ORGANIC METAL SALT POLYMERISE

IKW - CHEMICAL TREAT WOOD IMPREGNATE WATER SOL RADICAL POLYMERISE COMPOUND
CONTAIN ORGANIC METAL SALT POLYMERISE

NC - 001

OPD - 1988-02-01

ORD - 1989-08-08

PAW - (DKEN) DAIKEN KOGYO KK

TI - Chemical treatment of wood - by impregnating with water-sol. and

**radically polymerisable cpds. contg. organic metal salts and
polymerising**